

Luis Ronquillo Hernandez

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Mechanical Engineering Student with skills in mechanical design, modeling and assemblies, circuit fundamentals, lab reporting, and human-centered design research | Experience in data analysis, accessibility-focused engineering projects, and cross-disciplinary collaboration | Fluent in Spanish with strong teamwork, adaptability, and communication skills | Seeking Internship Opportunity

Education:

Bachelor of Science, Mechanical Engineering

May 2029

Rose-Hulman Institute of Technology – Terre Haute, IN

Relevant Courses: Graphical Communications, Statics & Mechanics of Materials, Software Development, Calculus II, Physics II

High School Diploma

May 2025

Springboro High School - Springboro, OH

GPA:4.04/4

Relevant Courses: AP Physics 1, AP Physics C: E&M, AP Calculus, AP Seminar & Research

Skills:

Software: Google Workspace, Microsoft Office, SolidWorks, MATLAB, Python

Technical: 3D Modeling and assemblies, 2D technical drawings, basic stress/FEA analysis, 3D printing, lab reporting, data analysis, basic circuit knowledge

Personal: Time management, verbal communication, adaptability, team collaboration

Language: Spanish – Fluent (Reading, Writing, Speaking, Listening), limited advanced vocabulary

Project Experience:

Multi-component mechanical design and 3D modeling

Sep 2025 – Nov 2025

- Created, modified, and optimized mechanical components using SolidWorks
- Designed multi-part assemblies using mates and constraints to ensure proper fit and function
- Produced professional 2D technical drawings with accurate dimensions and annotations
- Performed basic stress analysis to evaluate structural integrity and design performance

Restroom Accessibility and Design Research

Aug 2024 – May 2025

- Conducted human-centered engineering research focused on accessibility, usability, and social equity
- Collected and analyzed survey data to inform design recommendations using human factors principles
- Proposed engineering improvements incorporating ergonomics, public health, and accessibility standards
- Collaborated with faculty and external PhD researchers for feedback on methodology and conclusions

Work Experience:

South Regency Tennis Center – Centerville, OH

Jul 2024 – Oct 2024

Receptionist

- Managed guest check-in, court and class scheduling, and customer flow in a fast-paced environment
- Maintained operational standards including safety checks and facility upkeep

Volunteer Experience:

5 Panes 2 Peces – Volunteer

Jan 2021 – Aug 2025

- Prepared and distributed meals to homeless populations
- Sorted and organized clothing donations for efficient distribution

Activities:

- American Society of Mechanical Engineers (ASME)
- Society of Hispanic Professional Engineers (SHPE)
- Design/Build/Fly Team
- Triangle Fraternity (Social Professional STEM)

Personal Interests:

Competitive Tennis, Distance Running, Environmental Sustainability, Multicultural Awareness, Pickleball